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APR 25 2001

TECH CENTER 1600/2900

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/485,045DATE: 04/12/2001  
TIME: 16:00:19Input Set : A:\jhul440-1.ST25.txt  
Output Set : N:\CRF3\04122001\I485045.raw

ENTERED

3 <110> APPLICANT: The Johns Hopkins School of Medicine  
4 Lee, Se-Jin  
5 Huynh, Thanh  
6 Suzanne, Sebald  
8 <120> TITLE OF INVENTION: Growth Differentiation Factor-16  
10 <130> FILE REFERENCE: jhul440-1  
12 <140> CURRENT APPLICATION NUMBER: 09/485,045  
13 <141> CURRENT FILING DATE: 2000-05-12  
15 <150> PRIOR APPLICATION NUMBER: PCT/US98/15148  
16 <151> PRIOR FILING DATE: 1998-07-24  
18 <150> PRIOR APPLICATION NUMBER: 60/054,606  
19 <151> PRIOR FILING DATE: 1997-07-31  
21 <160> NUMBER OF SEQ ID NOS: 3  
23 <170> SOFTWARE: PatentIn version 3.0  
25 <210> SEQ ID NO: 1  
26 <211> LENGTH: 303  
27 <212> TYPE: DNA  
28 <213> ORGANISM: Human  
30 <220> FEATURE  
31 <221> NAME/KEY: CDS  
32 <222> LOCATION: (1)..(303)  
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35 cct cag ggc gac tgt gac cct gaa gca cca gtg acc gag ggc acc tgc 48  
36 Ala Gln Gly Asp Cys Asp Pro Glu Ala Pro Val Thr Glu Gly Thr Cys  
37 1 5 10 15  
39 tgc tgc cac cag gag atg tac act gac ctg cag ggg atg aag tgg gcc 96  
40 Cys Cys His Gln Glu Met Tyr Thr Asp Leu Gln Gly Met Lys Trp Ala  
41 20 25 30  
43 aag aac tgg atg gtg gag ccc ctg ggc ttc ctg gct tac aag tgt gtg 144  
44 Lys Asn Trp Met Val Glu Pro Leu Gly Phe Leu Ala Tyr Lys Cys Val  
45 35 40 45  
47 ggc acc tgc cag cag ccc ctg gag gcc ctg gcc ttc aat tgg cca ttt 192  
48 Gly Thr Cys Gln Gln Pro Leu Glu Ala Leu Ala Phe Asn Trp Pro Phe  
49 50 55 60  
51 ctg ggg ccg cga cac tgc atc gcc tca gag act gcc tgc ctg ccc atg 240  
52 Leu Gly Pro Arg His Cys Ile Ala Ser Glu Thr Ala Ser Leu Pro Met  
53 65 70 75 80  
55 atc atc agc atc aag gag gga ggc agg acc agg ccc cag gtg gtc agc 288  
56 Ile Ile Ser Ile Lys Glu Gly Gly Arg Thr Arg Pro Gln Val Val Ser  
57 85 90 95  
59 ctg cct aac atg agg 303  
60 Leu Pro Asn Met Arg  
61 100  
64 <210> SEQ ID NO: 2  
65 <211> LENGTH: 101  
66 <212> TYPE: PRT  
67 <213> ORGANISM: Human

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69 &lt;400&gt; SEQUENCE: 2

71 Ala Gln Gly Asp Cys Asp Pro Glu Ala Pro Val Thr Glu Gly Thr Cys

72 1 5 10 15

75 Cys Cys His Gln Glu Met Tyr Thr Asp Leu Gln Gly Met Lys Trp Ala

76 20 25 30

79 Iys Asn Trp Met Val Glu Pro Leu Gly Phe Leu Ala Tyr Lys Cys Val

80 35 40 45

83 Gly Thr Cys Gln Gln Pro Leu Glu Ala Leu Ala Phe Asn Trp Pro Phe

84 50 55 60

87 Leu Gly Pro Arg His Cys Ile Ala Ser Glu Thr Ala Ser Leu Pro Met

88 65 70 75 80

91 Ile Ile Ser Ile Lys Glu Gly Gly Arg Thr Arg Pro Gln Val Val Ser

92 85 90 95

95 Leu Pro Asn Met Arg

96 100

99 &lt;210&gt; SEQ ID NO: 3

100 &lt;211&gt; LENGTH: 4

101 &lt;212&gt; TYPE: PRT

102 &lt;213&gt; ORGANISM: Homo sapiens

104 &lt;220&gt; FEATURE:

105 &lt;221&gt; NAME/KEY: VARIANT

106 &lt;222&gt; LOCATION: (1)..(4)

107 &lt;223&gt; OTHER INFORMATION: X = any amino acid

110 &lt;400&gt; SEQUENCE: 3

112 Arg Xaa Xaa Arg

113 1

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/485,045

DATE: 04/12/2001

TIME: 16:00:20

Input Set : A:\jhu1440-1.ST25.txt

Output Set: N:\CRF3\04122001\I485045.raw

L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3